

FOREST ROAD EXCISE TAX SUMMARY SHEET

Region: Central

Timber Sale Name: Hutchins Flats

Application Number: 30-074849

Excise Tax Applicable Activities

Construction: 1429 linear feet
Road to be constructed (optional and required) but not abandoned

Reconstruction: _____ linear feet
Road to be reconstructed (optional and required) but not abandoned

Abandonment: _____ linear feet
Abandonment of existing roads not reconstructed under the contract

Deactivation: 1429 linear feet
Road to be made undriveable but not officially abandoned.

Pre-Haul Maintenance: _____ linear feet
Existing road to receive maintenance work (specifically required by the contract) prior to haul

Excise Tax Exempt Activities

Temporary Optional Construction: _____ linear feet
Optional roads to be constructed and then abandoned

Temporary Optional Reconstruction: _____ linear feet
Optional roads to be reconstructed and then abandoned

New Abandonment: _____ linear feet
Abandonment of roads constructed or reconstructed under the contract

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
PACIFIC CASCADE REGION

HUTCHINS FLATS

ROAD PLAN

SECTION 11, 14, 24, TOWNSHIP 13 NORTH, RANGE 07 WEST, W.M.
PACIFIC COUNTY

PACIFIC DISTRICT

AGREEMENT NO.: 30-074849

CONTRACT ADMINISTRATOR: Dean Adams

DATE: 09/01/2003

STAFF ENGINEER: Jason Mettler

DRAWN & COMPILED BY: Alicia Compton

SECTION 0 – SCOPE OF PROJECT

This project includes but is not limited to optional construction including:

- clearing;
- grubbing;
- right-of-way debris disposal;
- excavation and/or embankment to subgrade;
- landing construction;
- acquisition and installation of drainage structures;
- acquisition, manufacture, and application of rock;
- road deactivation;
- grass seeding.

SECTION 1 - GENERAL CLAUSES

1.1-1

Clauses in this plan apply to all construction including landings unless otherwise noted.

1.1-3

Construction of the following roads is not required. Roads used by the Purchaser shall be constructed on the State's location and in accordance with this Road Plan.

<u>Road</u>	<u>Stations</u>	<u>Type</u>
Spur 1	0+00 to 3+11	Construction
Spur 2	0+00 to 11+18	Construction

1.1-4

If the Purchaser desires a road location or design change, a revised Road Plan shall be submitted to the State for consideration.

1.1-5

On this plan quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions or Purchaser's choice of construction season or techniques shall be at the Purchaser's expense. Hidden conditions include, but are not limited to: solid subsurface rock, subsurface springs, saturated ground, and unstable soil.

1.2-1

The construction of any roads specified herein shall not be permitted between September 30 and May 1 unless authority to do so is granted, in writing, by the Contract Administrator.

1.2-2

Purchaser shall not use roads constructed under this Road Plan for hauling, other than timber cut on the right-of-way, without written approval from the Contract Administrator.

1.2.1-1

Pioneering shall not extend past construction that will be completed during the current construction season. Drainage shall be provided on all uncompleted construction as approved, in writing, by the Contract Administrator.

Clearing and grubbing shall be completed prior to starting excavation and embankment.

Culverts shall be installed in completed subgrade as construction progresses.

Subgrade, ditches, and culvert installations shall be completed and are subject to written approval by the Contract Administrator prior to rock application.

1.3-1A

Hauling shall be suspended when wheel track rutting exceeds 6 inches unless Purchaser elects to correct the situation at his/her own expense. Corrective measures and continued operations are subject to written approval by the Contract Administrator.

1.4-3

Reference points (R.P.'s) that are moved or damaged at any time during construction shall be reset in their original locations by the Purchaser. Excavation and embankment shall not proceed on road segments controlled by said R.P.'s until all moved or damaged R.P.'s are reset.

1.5-1

Maintenance on roads listed in Contract Clauses C-50 (Purchaser Road Maintenance and Repair) and C-60 (Designated Road Maintainer) shall be performed in accordance with Forest Access Road Maintenance Specifications.

SECTION 2 - CLEARING

2.1-1

Fell all vegetative material larger than 2 inches DBH or over 5 feet high between the marked right-of-way boundaries or if not marked in the field, between clearing limits specified on TYPICAL SECTION SHEET.

SECTION 3 - GRUBBING

3-1

All stumps shall be removed that fall between grubbing limits shown on the TYPICAL SECTION SHEET. Those outside the grubbing limits but with undercut roots shall also be removed.

3-2

Grubbing limits are defined as the entire area between the external limits shown on the TYPICAL SECTION SHEET.

SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

4.1-1

Right-of-way debris is defined as all nonmerchantable vegetative material larger than one cubic foot in volume within the grubbing limits.

4.1-2

All right-of-way debris disposal shall be completed prior to the application of rock.

4.2.3-3

Right-of-way debris shall not be placed against standing timber.

4.2.3-4

Right-of-way debris shall be scattered outside the grubbing limits.

SECTION 5 - EXCAVATION

5.1-1

Roads shall be constructed in accordance with dimensions shown on the TYPICAL SECTION SHEET.

5.1-3

Road grade and alignment shall conform to the State's marked location. Grade and alignment shall have smooth continuity without abrupt changes in direction. Maximum grades are: 18 percent favorable and 12 percent adverse. Minimum radius curve is 60 feet.

5.1-4

Minimum extra widening on the inside of curves shall be:

5 feet extra	80 to 100 foot radius curve
7 feet extra	60 to 80 foot radius curve

5.1-5

Curve widening, where required, shall be added to the inside of curves.

5.1-7

Roads shall be constructed to the dimensions shown on the TYPICAL SECTION SHEET, within the tolerance listed below. Tolerance classes for each road are listed on the TYPICAL SECTION SHEET.

<u>Tolerance Class</u>	<u>A</u>	<u>B</u>	<u>C</u>
Road Width (feet)	+1.5	+1.5	+2.0
Subgrade elevation (feet +/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

5.1-8

Excavation slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>
Common Earth (on side slopes of 55%)	1:1
Common Earth (55% to 70% sideslopes)	¾:1
Common Earth (on slopes over 70%)	½:1
Fractured or loose rock.....	½:1
Hardpan or solid rock.....	¼:1

5.1-9

Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

5.1-10

Embankments shall be widened as follows:

<u>Height at Centerline</u>	<u>Subgrade Widening</u>
Less than 6 feet	2 feet
6 feet or over	4 feet

5.1-11

Embankment slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Embankment Slope Ratio</u>
Common Earth and Rounded Gravel.....	1½:1
Angular Rock.....	1¼:1
Sandy Soils	2:1

5.1-12

Organic material shall be excluded from embankment.

5.1-15B

Waste material may be deposited adjacent to the road prism on side slopes up to 45 percent if the waste material is compacted and more than 100 feet away from live streams. On side slopes between 45 and 55 percent, all excavation not needed for embankment shall be end hauled or pushed to designated embankment sites. On side slopes of 55 percent or more, all excavation shall be end hauled or pushed to designated embankment sites. All waste embankments shall be compacted in layers not exceeding 2 feet.

- 5.1-15C
When constructing landings, waste material and embankment shall not be placed on side slopes steeper than 45%.
- 5.1-21
Waste material shall not be deposited within 50 feet of a cross drain culvert installation.
- 5.1-25
Turnarounds shall be no larger than 30 feet long and 30 feet wide. Location shall be subject to written approval of the Contract Administrator.
- 5.2-1
Road pioneering operations shall not undercut the final cut slope, deposit excavated material outside the grubbing limits, or restrict drainage.
- 5.3-1
All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over entire width of the lifts.
- 5.4-1
Silt-bearing runoff shall not be permitted to go into streams.
- 5.4-2
Accomplish sediment removal through silt traps, silt fences, settling ponds, or other methods as approved, in writing, by the Contract Administrator.
- 5.4-3A
On the following roads, Purchaser shall furnish and evenly spread the seed mixture listed below on all exposed soil inside the grubbing limits at a rate of 40 pounds per acre. The date of application is subject to approval by the Contract Administrator.

<u>Mixture Percent by Weight</u>	<u>Minimum Percent Germination</u>
50% Fescue, Red	90% Germination
25% Ryegrass, Perennial	90% Germination
15% Bentgrass	85% Germination
10% Clover, White and White Dutch (inoculated)	90% Germination

Weed seed shall not exceed 0.5% by weight.

Seed shall be furnished in standard containers on which the following shall be shown:

- Common name of seed
- Net weight
- Percent of purity
- Percentage of germination
- Percentage of weed seed and inert material

Required seed not spread by the termination of this contract shall become property of the State.

<u>Road</u>	<u>Stations</u>	<u>Seed Quantity (lbs)</u>
Spur 1	0+00 to 3+11	10
Spur 2	0+00 to 11+18	40

- 5.5-4
Constructed subgrades shall be compacted full width except ditch prior to rock application. Compaction shall be by a smooth-drum vibratory roller weighing at least 14,000 pounds. Four complete passes shall be made at a maximum operating speed of 3 mph.
- 5.5-5
Finished subgrade shall be crowned or outsloped as shown on the TYPICAL SECTION SHEET, and shall be uniform, firm, rut-free, and shaped to ensure surface runoff in an even, unconcentrated manner.

SECTION 6 - DRAINAGE

6.1-1
On the following road, road surfaces shall be outsloped at 6 inches in 10 feet.

<u>Road</u>	<u>Stations</u>
Spur 2	3+66 to 7+08

6.2.1-1A
Purchaser shall install and maintain culverts of the length and diameter specified on the CULVERT LIST. Culverts may be new or used steel, cast iron, plastic, concrete, or such other material as approved by the Contract Administrator.

6.2.1-5A
Metal, concrete, or plastic culverts and bands removed from the road bed as listed in the CULVERT LIST shall be removed from State land prior to termination of this contract.

6.2.2.3-1
Cross drains and surface culverts on road grades in excess of 3% shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low points of dips in roads shall not be skewed.

6.2.2.3-2
Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3% nor more than 10%.

6.2.2.5-1
Drainage structure outfalls shall not terminate directly on unprotected soil that will erode. Downspouts, flumes, and energy dissipators shall be installed to prevent erosion.

6.3-1
Ditches shall be constructed concurrently with construction of the subgrade. Ditches shall drain to culverts, ditchouts, and natural drainages.

6.4-1
Catch basins shall be constructed to resist erosion. Minimum dimensions: two feet wide and four feet long with backslopes consistent with Clause 5.1-8: Excavation Slopes.

SECTION 7 - ROCK

7.1-1
Rock for construction under this contract may be obtained from a source on State land as listed below at no charge to the Purchaser. Development and use shall be in accordance with a written "Development Plan" prepared by the State. A copy of the written plan is available upon request from the Pacific Cascade office. Upon completion of operations, the rock source shall be left in the condition specified in said plan, subject to approval by the Contract Administrator. Use of material from any other source must have prior written approval from the Contract Administrator. If other operators are using or desire to use this rock source, a joint operating plan shall be developed. All parties shall follow this plan.

<u>Source</u>	<u>Location</u>
P & E Ridge Quarry	Sec. 24, T13N, R07W, W.M.

7.1-3
All rock source operations shall be conducted as directed by the Contract Administrator and in accordance with an approved development plan on file at the Pacific Cascade Region office.

7.2.1-4
4 INCH IN PLACE rock shall meet the following specifications for gradation when placed in hauling vehicles. The exact point of evaluation for conformance to specifications will be determined by the Contract Administrator.

7.2.1.1-7D
4 INCH IN PLACE ROCK

% of top 4 inches passing 4" square	90% Min
% passing U.S. #40 sieve	16% Max.
% passing U.S. #200 sieve	7% Max.

All percentages are by weight.

7.2.1.1-9
Landing rock shall be no coarser than 6 INCH MINUS.

7.2.1.2-2
Manufactured rock shall contain no more than 5 percent by weight of vegetative debris, dirt, or trash.

7.2.3-1
Measurement of the 4 INCH IN PLACE rock shall be on a cubic yard truck measure basis. Each truck box shall be measured by the Contract Administrator prior to rock hauling. The Contract Administrator shall periodically require that a load be flattened off and its volume calculated. An average of such volumes for each truck shall be used to tally the volume to be hauled. The Purchaser shall provide and maintain load tally sheets for each truck and shall give them to the Contract Administrator upon request.

7.4.2-1
Apply at least the minimum rock quantity as shown on ROCK LIST.

7.4.2-7
Turnarounds and curve widening shall have rock applied to the same depth and specifications as the traveled way.

7.4.2-8
Each lift of rock shall be crowned or outsloped as shown on TYPICAL SECTION SHEET, and shall be uniform, firm, rut-free, and shaped to ensure surface runoff in an even, unconcentrated manner.

7.4.3-2
Rock shall be spread and compacted full width in one lift not to exceed 15 inches uncompacted depth. Compaction shall be by smooth drum vibratory roller weighing at least 14,000 pounds. Four complete passes at a maximum speed of 3 mph shall be made on each lift.

SECTION 9 - ROAD AND LANDING DEACTIVATION

9.1-1
The following roads shall be deactivated by the Purchaser prior to the termination of this contract.

<u>Road</u>	<u>Stations</u>
Spur 1	0+00 to 3+11
Spur 2	0+00 to 11+18

9.1-2
Deactivation shall consist of:
constructing non-drivable water bars in conformance with the attached NON-DRIVABLE WATER BAR DETAIL at a maximum spacing which will produce a vertical drop of no more than 10 feet between water bars or between natural drainage paths and with a maximum spacing of 100 feet;
skewing water bars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3% grade;
keying water bars into ditchline;
construction of tank trap barriers in conformance with the attached "T" TANK TRAP DETAIL;
removing ditch cross drain culverts and leaving the resulting trench open.

9.2-1

Purchaser shall reduce or relocate landing debris, in a manner approved, in writing, by the Contract Administrator, to avoid landing failures and potential debris slides.

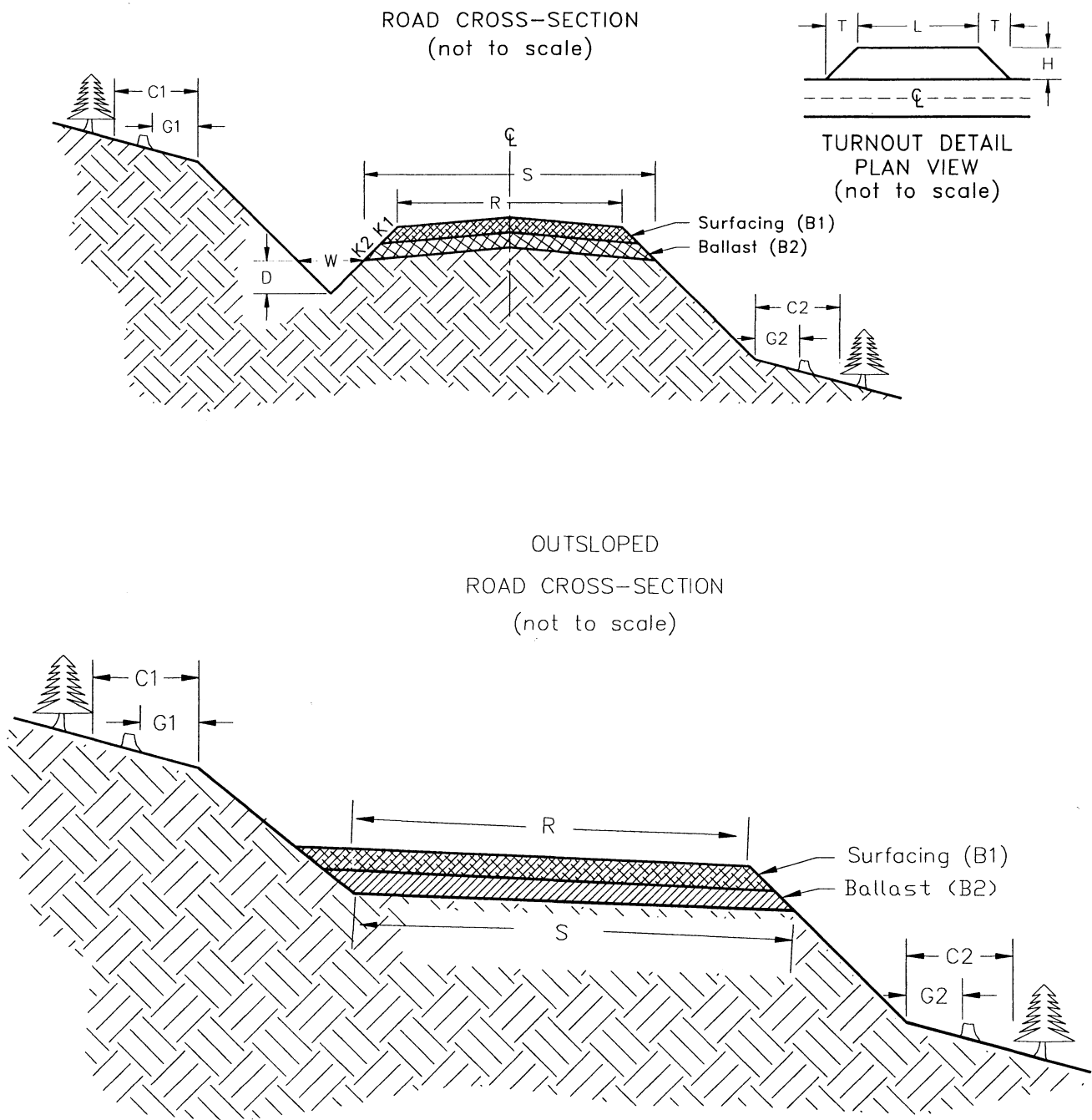
9.2-2

Purchaser shall provide for drainage of the landing surface as approved, in writing, by the Contract Administrator.

9.2-3

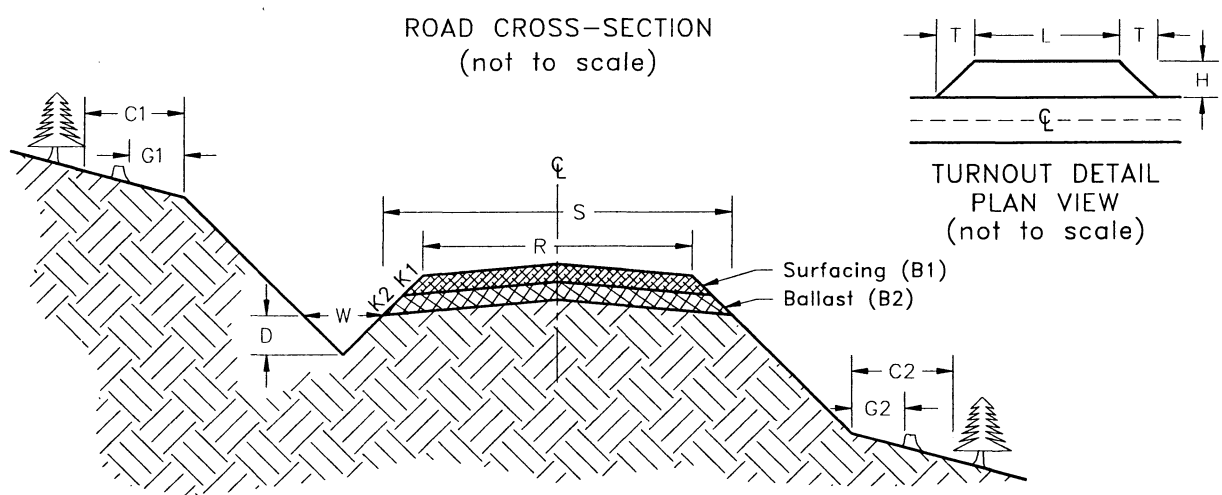
Landing embankments shall be sloped to original construction specifications.

TYPICAL SECTION SHEET



Road Number	From Station	To Station	Tolerance Class	Subgrade Width	Road Width	Ditch		Crown in. @ CL	Grubbing Limits		Clearing Limits	
				S	R	W	D		G1	G2	C1	C2
Spur 1	0+00	3+11	C	13'	10'	2'	1'	4"	2'	2'	5'	5'
Spur 2	0+00	3+66	C	13'	10'	2'	1'	4"	2'	2'	5'	5'
	3+66	7+08	C	12'	10'	Outsloped			2'	2'	5'	5'
	7+08	11+18	C	13'	10'	2'	1'	4"	2'	2'	5'	5'

ROCK LIST



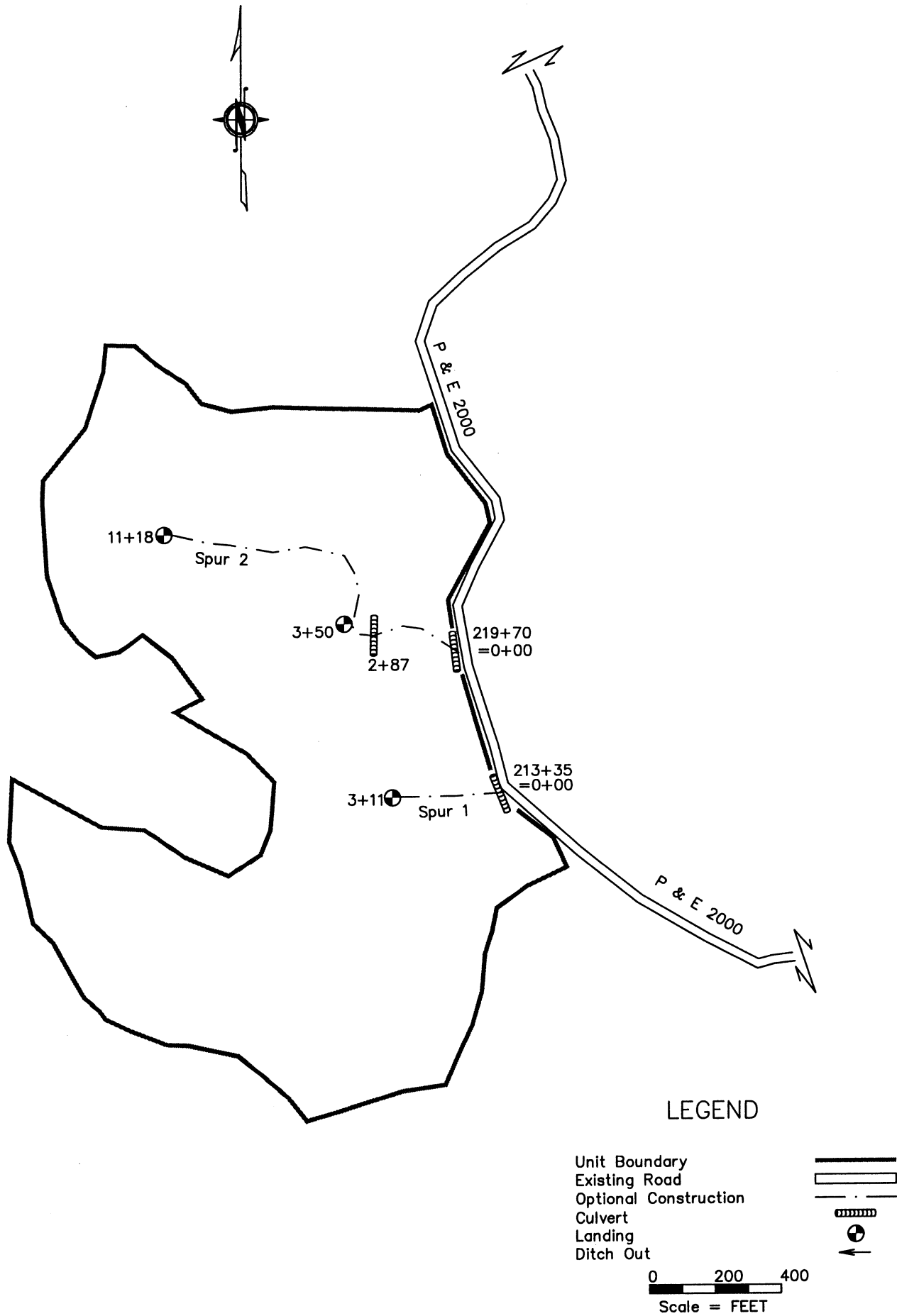
BALLAST

Road Number	From Station	To Station	Rock Slope	Compacted Rock Depth	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Turnout		
									Length	Width	Taper
			K2	B2					L	H	T
Spur 1	0+00	3+11	1 ½:1	12"	54	3.11	168	P & E Ridge Quarry			
	Landing (1)						50				
Spur 2	0+00	11+18	1 ½:1	12"	54	11.18	604				
	Landings (2)						100				

4 INCH IN PLACE TOTAL 922 Cubic Yards

HUTCHINS FLATS

ROAD PLAN MAP

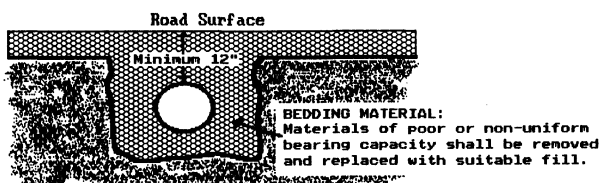


CULVERT LIST

Road Number	Location	Culvert		Length (ft)			Riprap (C.Y.)			Backfill Material	Placement Method	Const. Staked	Remarks
		Dia.	Gauge	Culvert	Downspt	Flume	Inlet	Outlet	Type				
			If Steel										
Spur 1	0+00	18"	-	40	-	-	-	-	-	NT			
Spur 2	0+00	18"	-	40	-	-	-	-	-	NT			
	2+87	18"	-	34	-	-	-	-	-	NT			

Key:

CULVERT BACKFILL AND BASE PREPARATION (For culverts less than 36")

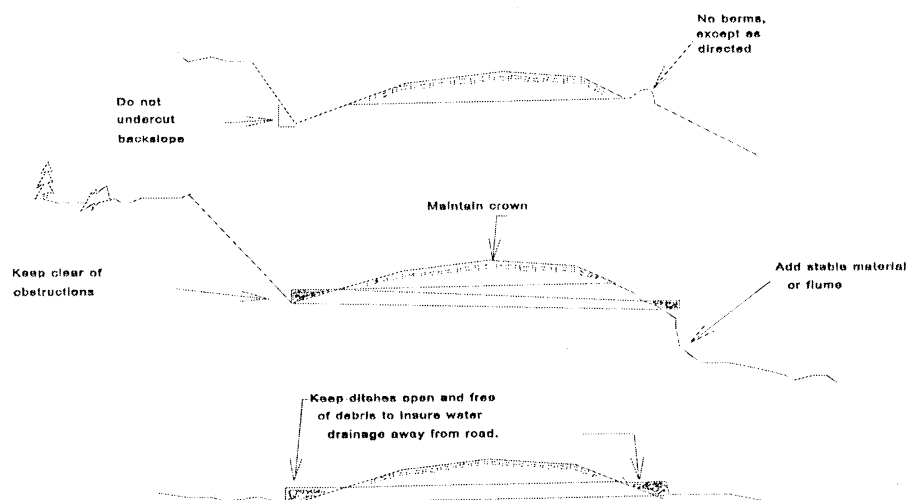


SR - Shot Rock
NT - Native (bank run)
SL - Select Fill
HL - Heavy Loose Riprap
LL - Light Loose Riprap
Flume - Half round pipe
Downspout - Full round pipe

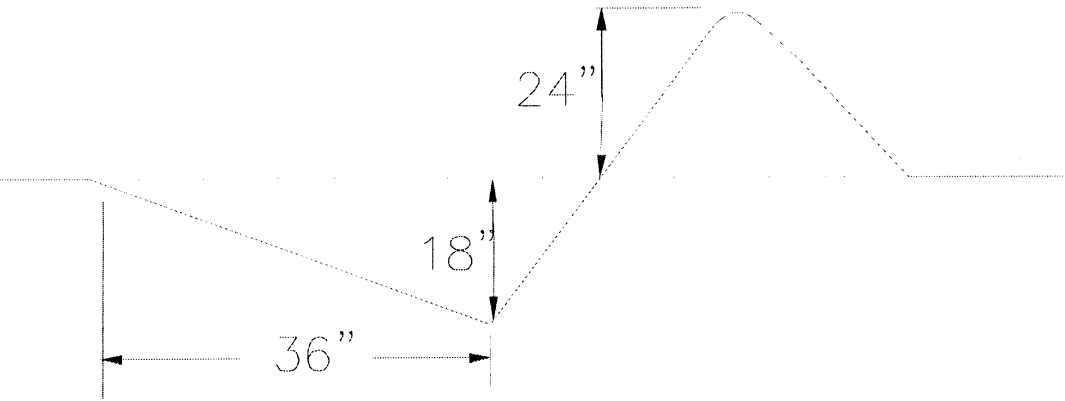
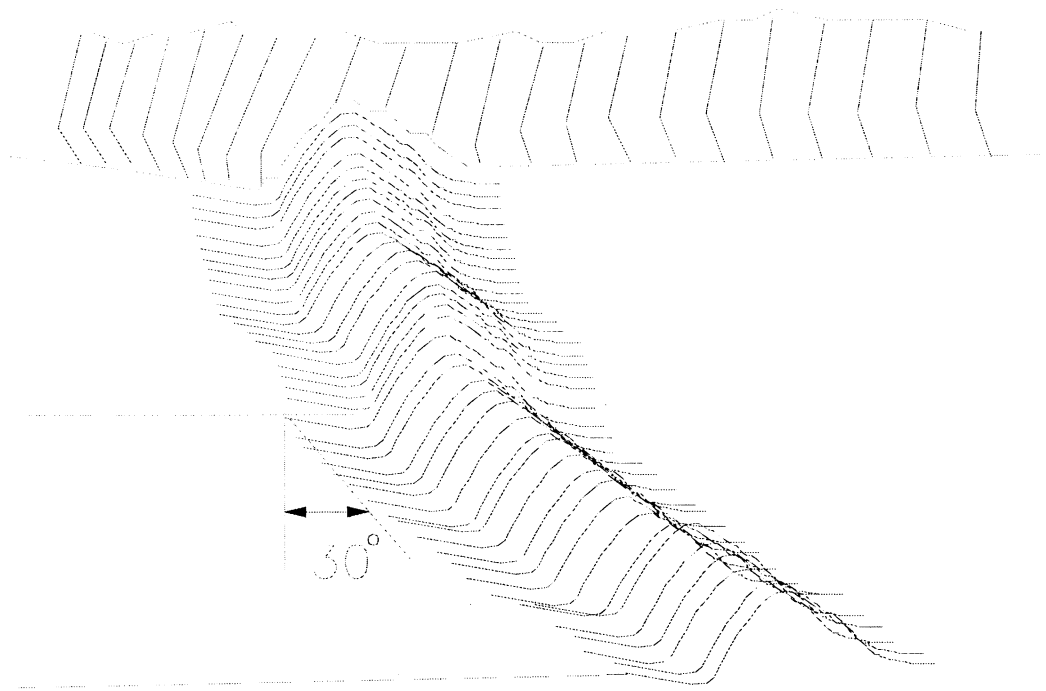
STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

FOREST ACCESS ROAD
MAINTENANCE SPECIFICATIONS

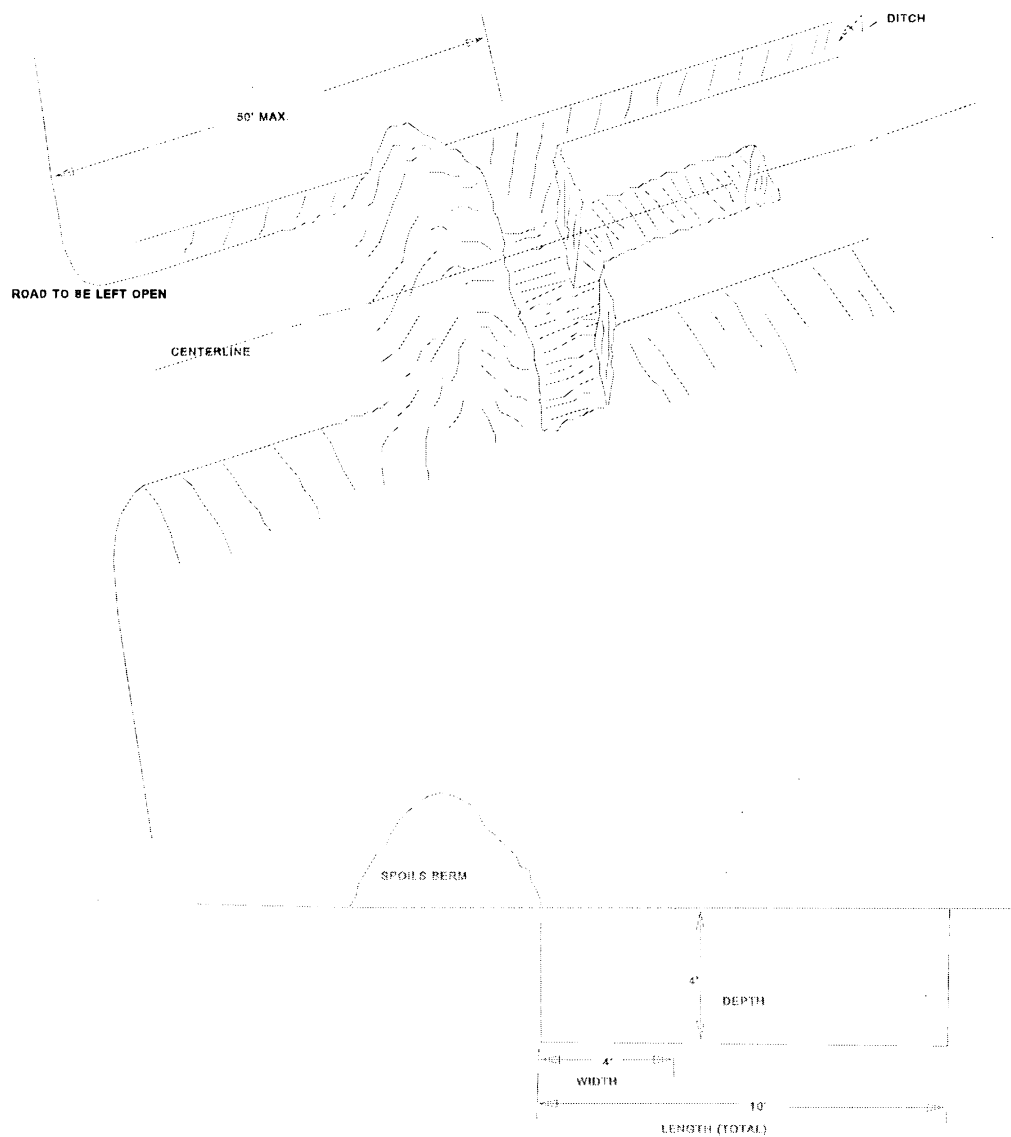
1. CONSTRUCTION AND RECONSTRUCTION (Prior to acceptance to the contract or acceptance on a timber sale).
 - A. Cuts and Fills
 1. Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 1½:1 slopes with selected material or as directed. Remove overhanging material from the cut slopes.
 2. Material from slides or other sources requiring removal shall not be deposited in streams or at locations where it will erode into streams or water courses.
 3. Undesirable slide materials and debris shall not be mixed into the surface material.
 - B. Surface
 1. Grade and shape the road surface, turnouts, and shoulders to the original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
 2. Blading must not undercut the backslope at the bottom of the ditchline or cut geotextile at centerline.
 3. Watering may be required to control dust and to retain fine surface rock.
 4. Desirable surface material shall not be bladed off the roadway.
 5. Replace surface material lost or worn away.
 6. Remove berms except as directed by the State.
 7. Barrel spread soft spots to prevent degradation of geotextile.
 - C. Drainage
 1. Keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions and functioning as intended.
 2. Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This must be done even during periods of inactivity.
 3. Add stable material at the outlet end of the culvert as needed to stabilize the stream bed.
 4. Headwalls: maintain to the road shoulder level with material that will resist erosion.
 5. Keep silt bearing surface runoff from getting into live streams.
 - D. Structures
Repair bridges, culverts, cattleguards, fences, and other road structures to the condition required by the construction specifications.
 - E. Termination of Use or End of Season
Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch, and culvert cleaning and water bars.
 - F. Debris
Remove fallen timber, limbs, and stumps from the slopes or roadway.



NON-DRIVABLE WATER BAR DETAIL



"T" TANK TRAP DETAIL



HUTCHINS FLATS

FPA



WASHINGTON STATE DEPARTMENT OF
Natural Resources

**Forest Practices Application/Notification
Notice of Decision**

FPA/N No: 2511727
Effective Date: 1/2/04
Expiration Date: 1/2/06
Shut Down Zone: WSIN
EARR Tax Credit: ☒ Eligible ☐ Non-eligible

DECISION:

- ☐ **NOTIFICATION** Operations shall not begin before the effective date.
- ☒ **APPROVED** This Application is approved and is subject to the conditions listed below.
- ☐ **DISAPPROVED** This Application is disapproved for the reasons listed below.
- ☐ **CLOSED-OUT** ☐ Cancelled by DNR ☐ Withdrawn by applicant

CONDITIONS / REASONS:

Issued By: <u>JULIE OLIVER</u>	Title: FP Coordinator
Region: PACIFIC CASCADE/CHEHALIS	Date: <u>1/2/04</u>

Copies to: ☒ Landowner DNR - Hutchins Flat
☐ Timber Owner Same as C/O
☐ Operator Same as C/O

THE FOLLOWING IS PROVIDED FOR YOUR INFORMATION:

Forest Practice Application/notifications are posted to the Internet by the Forest Practice Application Review System (FPARS). Applicants, reviewers and interested parties can review existing proposals if they have completed a reviewer profile and the DNR has issued a login and password. You may get a profile form from the FPARS web site at:

<http://www.wa.gov/dnr/htdocs/forestpractices/>

You may also get a copy of your application / notification from your local DNR Central Region office at 1405 Rush RD, Chehalis, WA 98532 (360) 740-6825.

Also available from the FPARS website are the FPA/N form and instructions, FPA/N maps, Renewal forms, other required forms and helpful information.

Appeal Information:

RCW 76.09.220 (8) provides any aggrieved person the right to appeal the approval or disapproval of a forest practices application. RCW 43.21C.075 provides any aggrieved person the right to appeal issues arising under the State Environmental Policy Act. Appeals must be filed within 30 days of the approval or disapproval of the forest practices application. Appeals must be filed with the **FOREST PRACTICES APPEALS BOARD**, PO BOX 40903, 4224-6th Ave SE Bldg #2, Lacey, WA 98504-0903. Appeals must be filed in writing on the form required in Title 223-08. Concurrently with filing of the Forest Practices Appeals Board, copies of the appeals must also be filed with the **OFFICE OF THE SUPERVISOR, DEPT OF NATURAL RESOURCES**, 1111 Washington St SE, 4th Floor Natural resources Bldg., PO BOX 47012, Olympia, WA 98504-7001, and with the **ATTORNEY GENERAL**, PO BOX 40100, OLYMPIA, WA 98504-0100.

Other Applicable Laws:

Operating as described in this application/ notification **does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.**

Change of Operator, Landowner or Timber Owner:

If the landowner changes the **operator**, the landowner shall **notify the DNR in writing within 48 hours** of the change. Appropriate forms are available at the DNR region office and at the above FPARS website. Use this form to also notify DNR of a change in landowner and/or timber owner.

Notice of Sale or Transfer of Land or Timber:

Sellers and Buyers of land and perpetual timber rights have certain rights and responsibilities when the land or perpetual timber rights are sold or transferred. Where the land is subject to certain continuing forestland obligations including without limitation reforestation, Road Maintenance and Abandonment Plans and Harvest Strategies along Type 4 Waters in Eastern Washington, **prior to the sale or transfer of the land or perpetual timber rights the law requires that the following occur:** 1) the seller shall notify the buyer of the existence and nature of the obligations and 2) the buyer shall sign a Notice of Continuing Forestland Obligation Form indicating the buyer's knowledge of such obligation. At the time of sale or transfer of the land or perpetual timber rights the seller shall send the signed Form to the Department of Natural Resources (DNR). The Form may be obtained from your DNR region office.

If the seller fails to notify the buyer about the continuing forest land obligation referenced above, the seller shall pay the buyer's costs related to such continuing forest land obligation, (including all legal costs) incurred by the buyer in enforcing the continuing forestland obligation against the seller. Failure by the seller to send the required notice to the DNR at the time of sale shall be prima facie evidence, in an action by the buyer against the seller for costs related to continuing forest land obligation, that the seller did not notify the buyer of the continuing forest land obligation prior to sale. See RCW 76.09.070, RCW 76.09.390 and WAC 222-20-055.

There are also other types of continuing forestland obligations subject to certain requirements, including without limitation Small Forest Landowner Forest Riparian Easements and Landowner Landscape Plans. For more information contact the DNR Regional Office.